The smallest bat species in Canada is the **tri-colored bat** which has a wingspan of only 21 to 26 cm and weighs no more than a toonie,





DID YOU KNOW?

Perimyotis subflavus

Tri-colored bat



Northern long-eared myotis Myotis septentrionalis







Little brown bat

throughout the years.

are rather stable or if they have increased

local bat populations are in decline, if they

recently collected data with past research

team are now able to compare the most

Members of the Ressource Conservation

bats in the area, as well as their levels of

digital recorders confirm the presence of

National Park. The data collected by these

at 25 observation sites in Kouchibouguac

ultrasounds emitted by bats were installed

2001. This will help determine whether

bns 6891 neewted seibuts mort stab

activity within park boundaries.

machines capable of recording

Do You Hear What I Hear?

In 2015 and 2016, highly specialized

National Park.

Keeping up with bats!

limiting potential light pollution.

programs offered at Kouchibouguac

educational activities and interpretive

at risk by participating in the numerous

Dark Sky Preserve are respected, thus

renovation or construction project, the

detecting bat presence or potential

inspections, helping employees in

adopted a series of best practices

Kouchibouguac National Park has

Kouchibouguac National Park

Best practices of

GENERAL

Bats have been evolving for more than 50 million

Antarctica, these flying mammals have adapted and developed numerous strategies in order to survive in various ecosystems. Currently, there are more than 1300 species of bats that have

years. Found on every continent except

been laentified throughout the world

There are 48 bat species throughout North America, with 19 species found in Canada.

Three smaller bat species hibernate in New

Brunswick during the winter months: the little

brown bat, the northern long-eared myotis

and the tri-coloured bat. All three hibernating species are listed in the registry of Species at Risk Act in Canada, which means they are now

protected under federal and provincial laws. There are also four larger, migrating bat species

summer: the big brown bat, the hoary bat, the

that visit the province regularly during the

red bat and the silver-haired bat.

INFO

NAA9 JANOITAN

ТА СТЯОЯЗ

MONITORING

KONCHIBONGNAC

+ CONSERVATION

applicable to all current building

park must ensure that all guidelines of the

roosting sites. In addition, prior to any new

Learn more about bats and other species











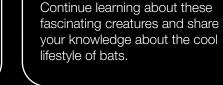




Avoid visiting mines, caves and abandoned buildings or other places where bats may hibernate. Humans can unknowingly spread the white-nose fungus to new areas.

Become a real bat superhero by

following these simple steps:



pc.gc.ca/kouchibouguac pc.kouchibouguac.pc@canada.ca





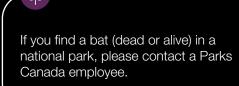
Photo: Sherri & Brock Fenton

Parks Parcs
Canada Canada



Respect Dark Sky Preserve guidelines by limiting light pollution and use of flashlights at night.

(506) 876-2443





STA38H

THINGS

YOU

White-nose Syndrome (WNS)

lack of food availability during winter, often result in burning of precious fat reserves, combined with prematurely from their hibernation. Sadly, the wings of infected bats, awakening them powdery fungus grows on the noses, faces and appearing in New Brunswick in 2010, the white decimating many hibernating bat populations. First throughout eastern North America since 2006, introduced from Europe that has quickly spread White-nose syndrome is a fungal disease

s tragic death for many hibernating bat species.

eating 30 kg of food per day!

weight in moths, beetles and

Big appetite!

more than 50% of their total body

flying insects and they can devour

and is the same as a 60-kg person

approximately 600 insects per hour

mosquitoes per night! This represents

Bats are the main natural predators of

plan, which can be as simple as installing colony, one must have a reestablishment attics, between walls or even inside areas of buildings and houses such as Maternity colonies are located in warmer

KNOMS DID LON

to fumigate or poison bat colonies. colony as possible. It is against the law bat houses as close to the existing May to August. Before removing a bat gestation or reproduction periods from dislodge a maternity colony during the chimneys. It is important to never

Colony eradication

.noitsoolodoe guinub eevew captures the returning ultrasound wide pinna of the ear easily the size of their tiny head. The such large ears in comparison to vision. This is why they have hearing to supplement their night Bats rely on their acute sense of

have, Mrs. Myotis!

Oh my! What big ears you

Kouchibouguac

National Park

A closer look at our species at risk

Returning sound waves





move about in the air thanks to

of skin, thus enabling bats to easily

bysjanges are covered by a layer

very elongated metacarpals and

Chiroptera. In Greek, the prefix

Bats are nocturnal mammals

Phalanges

ptera meaning "wing". Indeed, the

chiro signifies "hand" and the suffix

belonging to the taxonomic group

their "winged hands".

Echolocation phenomenon

and texture of hunted prey! well as pick up vital information such as size darkness, feed on various insects in mid-air, as echolocation, bats can navigate easily in avoid or catch prey during flight. Thanks to objects just like an echo, guiding them to inaudible to the human ear) which bounce off Bats emit short clicking sounds (ultrasounds

the world capable of true flight. Bats are the only mammals in

FUN FACT

During the gestation period, a female bat can eat the equivalent of its total body weight in one night only!

Photo: Sherri & Brock Fenton

Spring - Gestation

In the springtime, female bats leave the males behind in their hibernacula and congregate in maternity colonies inside buildings or large-diameter trees. The gestation period may vary between 44 and 60 days, depending on the species. Huddling together encourages a more rapid growth of the embryo

Winter – Hibernation

In winter, all three smaller species often hibernate together in cold and humid areas called "hibernacula" such as caves, grottos or mines. During hibernation, bats survive by using the stored fat reserves accumulated in the summer and fall months. By decreasing and maintaining their body heat to the ambient temperature of their surroundings, (oscillating between 3°C and 6°C), bats can reduce their metabolism rate by 96%!



Fall – Reproduction and Migration

All three species of micro-bats congregate in massive numbers in caves or mines during

autumn in order to mate and reproduce before

ensuring successful hibernation. Most bat

roosting sites year after year.

species are loyal and will return to the same

Summer – Raising young ones

Bats usually give birth to a single pup, sometimes two in the case of the tri-coloured bat. Thanks to the rich maternal milk, the rapidly growing pups are weaned shortly after one month. Even after reaching their adult size, the pups will remain with their mother until the end of the summer, learning to fly, to hunt and to locate winter roosts.



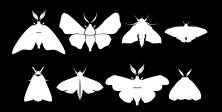
Bat moms sometimes fly with their newborn pups. The young one clings to its mother's underarm nipple by the mouth and hangs onto her waist with its toes. Hold on tight little one!

HABITAT (DARK SKY)



Darkness Prevails

As nocturnal creatures, bats appreciate dark habitats with little or no light pollution. Kouchibouguac National Park's Dark Sky Preserve is an ideal environment for bats, as feeding occurs mostly at dusk and dawn, when insects are more active.



Where To Eat?

The ecotone - the meeting of two different ecosystems - is often considered a choice feeding place for bats. They frequently visit beaver ponds, calm water streams or open spaces surrounded by forest; for example, where bogs and the Acadian forest meet, two major habitats of Kouchibouguac National Park.

Photo: Sherri & Brock Fenton